

Title (en)
CIRCUIT ARRANGEMENT FOR THE WIRING OF HIGH POWER TRANSFORMERS

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Application
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Abstract (en)
[origin: EP0257291A1] High power transformers normally contain a low-voltage winding (12), a high-voltage main winding (13) and a tapped winding (14). If the tapped winding is operated in a subtractive and additive manner, when the transformer is excited with an oscillating switching voltage at the resonant frequency of the tapped winding (14), particularly when it is connected subtractively, high voltage amplitudes with respect to earth can occur along the tapped winding (14) at the end of the main winding (13). To reduce and damp-out such resonant frequency oscillations, in the case of known arrangements either each stage or the complete tapped winding (14) was connected in parallel with an R-C element (19, 20). According to the invention, it is now intended that only a single stage of the multi-stage tapped winding (14) is connected in parallel with an R-C element (19, 20), which R-C element also reduces the resonant amplitudes occurring in the other stages because of the transformer coupling between this stage and the other stages. The use of the circuit arrangement according to the invention is expedient in the case of large transformers. This is particularly true in all cases in which a multi-stage tapped winding (14) is provided connected additively and subtractively with respect to the high voltage main winding (13). <IMAGE>

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Cited by
CN102945735A; EP2549645A1; AU716573B2; US9548155B2; WO9701883A1; WO9739463A1; WO2023056538A1; EP0763833B2

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